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| <p>(21) International Application Number: PCT/US99/06963</p> <p>(22) International Filing Date: 30 March 1999 (30.03.99)</p> <p>(30) Priority Data: 60/080,375 1 April 1998 (01.04.98) US</p> <p>(71) Applicant (for all designated States except US): THE GOVERNMENT OF THE UNITED STATES OF AMERICA, as represented by THE SECRETARY, DEPARTMENT OF HEALTH AND HUMAN SERVICES [US/US]; Centers for Disease Control and Prevention, Office of Technology Transfer, Executive Park, Building 4, Suite 1103, Atlanta, GA 30329 (US).</p> <p>(72) Inventors; and (75) Inventors/Applicants (for US only): WEIGEL, Linda, M. [US/US]; 1736 Wilson's Crossing Drive, Decatur, GA 30033 (US). TENOVER, Fred, C. [US/US]; 2044 Breckenridge Drive, Atlanta, GA 30345 (US).</p> <p>(74) Agents: GREENE, Jamie, L. et al.; Jones & Askew, LLP, 37th floor, 191 Peachtree Street, N.E., Atlanta, GA 30303 (US).</p> | | <p>(81) Designated States: AU, CA, JP, US, European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE).</p> <p>Published <i>Without international search report and to be republished upon receipt of that report.</i></p> |
| <p>(54) Title: OLIGONUCLEOTIDE PROBES FOR DETECTING ENTEROBACTERIACEAE AND QUINOLONE-RESISTANT ENTEROBACTERIACEAE</p> <p>(57) Abstract</p> <p>Oligonucleotide probes for detecting <i>Enterobacteriaceae</i> species. Unique <i>gyrA</i> coding regions permit the development of probes specific for eight different species: <i>Escherichia coli</i>, <i>Citrobacter freundii</i>, <i>Enterobacter aerogenes</i>, <i>Enterobacter cloacae</i>, <i>Klebsiella oxytoca</i>, <i>Klebsiella pneumoniae</i>, <i>Providencia stuartii</i> and <i>Serratia marcescens</i>. The invention thereby provides methods for the species-specific identification of these <i>Enterobacteriaceae</i> in a sample, and detection and diagnosis of <i>Enterobacteriaceae</i> infection in a subject. Further, nucleic acids are provided for determining quinolone-resistant status of these <i>Enterobacteriaceae</i>.</p> | | |